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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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C-O-N-F-I-D-E-N-T-I-A-L

25X1

COUNTRY China

REPORT

SUBJECT Chinese Communist Export Catalogs

DATE DISTR. 3 June 1957

re: description of (radio receiver; printing press machinery; communications eqpt; were recorded)

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SOURCE EVALUATIONS ARE DEFINITIVE APPRAISAL OF CONTENT IS

The following illustrated leaflets describe instruments and machinery manufactured in Communist China and offered for export:

a. Leaflets issued by the China National Instruments Import Corporation:

Tape Recorder Model 631

Radio Receiver Model 723 "Tung Fong Hung" (7 tubes, 3 wave bands)

"Chungtien" Headphones (2,000-ohm, 3,000-ohm, and 4,000 ohm sets)

Midget Dust Impinger Model 38B (portable)

b. Leaflet issued by the China National Transport Machinery Import Corporation:

Rotary Printing Machines (Uni-reel 8-page newspaper rotary press, Model RP 1-32)

These leaflets, unclassified when detached from this report

1. Comment. This leaflet lists the China National Import and Export Corporation, 112 Leipziger Str., Berlin W8. as the Berlin representative

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INFORMATION REPORT

**RADIO RECEIVER
MODEL 723
"TUNG FONG HUNG"**



**CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION
(IMPORTERS & EXPORTERS)**

25X1

RADIO RECEIVER "TUNG FONG HUNG" BRAND

This is a deluxe super-heterodyne 7-tube, 3 wave band radio receiver of the latest production. It is provided with phono jack suitable for all types of phonographs.

Miniature tubes, iron core I. F. transformer, and R. F. coil are its typical features which ensure the highest quality, double amplification and perfect performance.

TUBES AND NUMBERS:- One-6BE6; Two-6BA6; One-6AL5; One-6AQ5; One-6E5; One-5Y3 GT/G; and Two-6.3V bulbs for dial illumination.

WAVE BANDS:-

Short wave - 1	(Red)	39.5 - 79.0 metres	(7.6 - 3.8 M. C.)
Short wave - 2	(White)	24.8 - 33.3	„ (12.1 - 9.0 M. C.)
Medium wave	(Yellow)	188 - 545	„ (1600 - 550 K. C.)

Phonograph

INTERMEDIATE FREQUENCY:- 465 K. C.

SENSITIVITY:- 1. Medium wave not less than 200 microvolts. Short wave not less than 300 microvolts. Pickup output not less than 0.15 volts.

2. Wattage output: Minimum 1.5 watts.
Maximum 4 watts.

SPEAKER:- 6 watts, 200 mm. dia. P. M speaker.

Binding post is provided on back of receiver for extra speaker of 4 ohms.

AUTOMATIC VOLUME CONTROL:- As output variation does not exceed 8 d. b. to input variation of 26 d. b., an equal signal strength on all incoming stations can be obtained at the same volume level.

POWER SOURCE:- 110 / 220 volts, AC 50 / 60 cycles.

Provided with special voltage socket.

Power consumption - 50 watts.

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

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"Chungtien" HEADPHONE

中國儀器進口公司
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION
(IMPORTERS & EXPORTERS)

CHUNGTIEN HEADPHONES

I MODELS:

2000 Ohm set. 3000 Ohm set. 4000 Ohm set.

II TECHNICAL DATA:

1. The D.C. resistance of the double headphone and turns of coils are as follows:

D. C. Resistance	Resistance of each coil	Turns of coil (Winding)	Wire Gauge
2000	500	3600 turns	SWG No. 46
3000	750	3780 turns	SWG No. 47
4000	1000	5500 turns	SWG No. 47

Note: The above figures are allowed a tolerance limit of 10%.

2. The insulation resistance between the coils and cores and between the cores and bakelite receiver pieces is over 20 Megohms.

3. Permanent magnetic alloy is made of ALNI III magnet alloy.

4. Test of sensitivity. Tone quality is clear and distinct; as a receiver for the crystal radio, its sensitivity is higher than average local product. For simply testing, put one terminal of cord in touch with tongue and let the other terminal of the cord contact slightly with the wrist watch, a clear click will be heard from the receiver.

5. The iron cores are made of magnet iron and properly annealed.

6. The diaphragm is made of 0.17 mm. iron plate also properly annealed.

7. The enamelled copper wire is alloyed less than 10 pin holes per meter.

III This double headphone (or crystal radio headreceiver) is generally accepted by the users for its high sensitivity and easy handling. For maintaining quality, the following vital parts have been specially treated in the course of manufacturing.

1. The diaphragm of the receiver attained high sensitivity by annealing.

2. The raw material for cores is special magnet iron and the annealing process renders the magnetic residual to a minimum.

3. No casting gate is allowed for reproducing the magnetic alloy. The magnetic power is excellent. The rate of degaussing is negligible.

4. The gap between the core and the diaphragm is standardized by precisely processing; the hearing quality is guaranteed.

IV PRECAUTIONS:

1. To prevent the thin copper wire of the coil from oxidation, always keep the phone in a dry place.

2. Do not remove the diaphragms constantly, it effects degaussing.

3. Keep the diaphragm in perfect flatness. Any bending of it brings about defect in sounding quality.

4. Do not connect this phone with a D.C. circuit. A connection regardless of the direction of the current may reduce the magnetic power.

V USES:

This headphone is designed for the crystal radio receiver which is widely adopted in rural areas where electricity is not available. It is also used as a substitution for wire speaker in hospitals and sanitariums where quietness is desired.

This headphone is also available for measuring instruments, wire communications, telegraph coding and other purposes.

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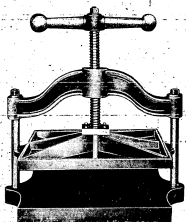
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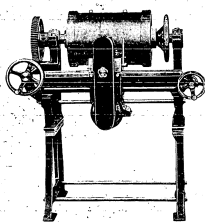
AGENT:—

HONGKONG: CHINA RESOURCES CO.,
12 Floor, Bank of China Bldg.,
De Voux Road Central,

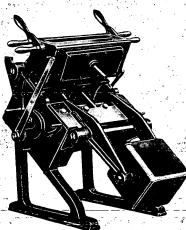
STANDARD EQUIPMENT



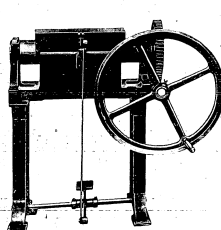
熱版機
Matrix Moulding Press



鋳版機
Rouger with electric drive



流版機
Oscillating Cup Casting Plant



刻版機
Shaver for curved stereos

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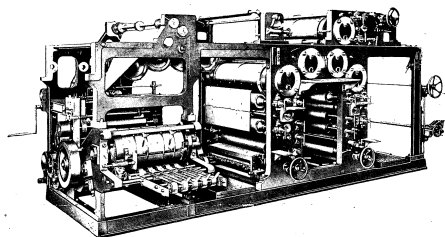
輪轉印報機

ROTARY
PRINTING
MACHINES

CHINA NATIONAL TRANSPORT MACHINERY IMPORT CORPORATION
IMPORTERS & EXPORTERS
ER-LI-KOU, HSI-CHAO, PEKING, CHINA CABLE ADD: TRANSMACH PEKING

單捲筒八版輪轉印報機

ROTARY PRINTING MACHINE



UNI-REEL 8-PAGE NEWSPAPER ROTARY PRESS

Model RP-1-32

This Rotary Press is designed for printing 10,000 to 50,000 copies of newspapers daily. It is also adaptable to book and job printings. Rigidity in construction and simplicity in operation are its essential features. Its main frame is of the arch type which provides ample working space, and its parts are arranged within convenient reaches of the worker.

This press is composed of two printing units and a second colour unit which is fixed on the top. The oil ring lubricated bearings of the cylinder are completely enclosed. An eccentric mechanism is provided for adjusting the centre of the shaft to ensure printing accuracy and correct pressure. The length of the cylinder is equal to the width of two plates.

The press is complete with one tapeless folder. Each complete issue of the newspaper will be automatically folded into two platts by means of the folding triangles and cylinders and sent out of the rotary press in consecutive order through its tape delivery. A counter

with recording marks for every 25 copies or 50 copies of newspapers delivered, is attached to the press for purpose of computation.

The press takes a single paper reel of 32" width, but reels from 31" up to 34" are also adaptable. Lifting device for paper reel is provided to save work and time. Another convenient feature is that two such presses can be connected together to convert into a two-reel 16 page press.

The electric drive consists of a variable speed A.C. commutator motor with remote control of speed by push buttons.

In case of emergency an electro-magnetic brake automatically stops the machine.

Technical data:

Maximum Printing Surface	...	...	...	141" x 21"
Size of 4-page Copy (with 32" width reel)	...	...	...	22" x 32"
Standard Width of Paper Reel	...	...	...	32"
Printing Diameter	...	...	...	14"
Number of Plates	...	...	...	8 pcs.
Number of Plates for second colour	...	...	...	4 pcs.
Thickness of Plates:	...	...	...	14 mm.
Thickness of Blanket	...	...	...	5 mm.
Standard Speed	...	...	...	12,500 cyl r/h
Output: Average as follows	...	...	...

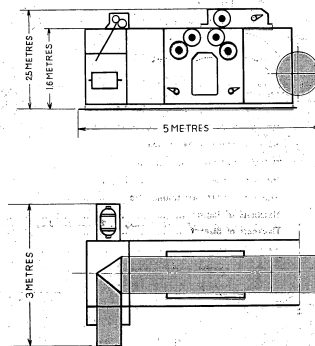
No. of sheets per copy	No. of page	copies/hour	No. of pages with colour	Width of reel
1	2	50,000	1	32"
1	4	25,000	2	32"
2	8	12,500	4	32"

Power Required 20 H.P.
Overall Dimension length 5 x; width 3.5 x height 2 m.

Standard Equipment includes one each of:

I-Matrix Moulding Press I-Router with Electric Drive
I-Oscillating Cup Casting Plant I-Shaver for Curved Stereos
I-Melting Pot I-Trimming Apparatus

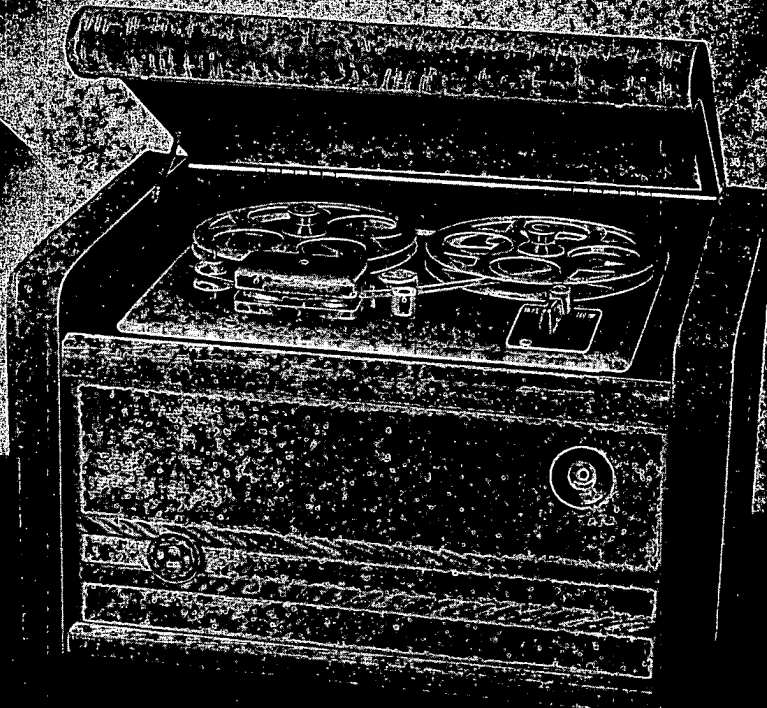
Total Weight (including stereotyping set and electric equipment) 12,650 kgs. approx.
Gross Weight 15,250 kgs. approx.
Shipping Space 22.65 cu. m. approx.



OVERALL DIMENSION

Tape Recorder

MODEL 631



中國儀器進口公司
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION
(IMPORTERS & EXPORTERS)

INTRODUCTION

The Chung Sheng Model 631 tape recorder is a high fidelity recording instrument produced along modern designing principles and manufacturing techniques. Recordings made with it may be kept indefinitely or played back for innumerable number of times without any appreciable loss of quality. However, if the recordings is no longer needed, the tape may be reused for new recordings. because all traces of previously recorded sound on the tape are automatically erased when new recordings are being made.

THE ELECTRONIC CIRCUIT

The electronic part of Model 631 tape recorder consists of 6 tubes: 1-6SL7, 1-6SJ7 and 1-6V6 constitute the dual purpose amplifier. The selector switch brings in the proper networks to provide a constant current recording characteristic of the "record" position and appropriate equalization in the "reproduce" position. Another 6V6 is used to supply the supersonic biasing and erasing current at approximately 35Kc. 1-6E5 is used as recording volume indicator. 1-5Y3 is used as rectifier, which, together with the power pack, is mounted on a separate chassis to minimize hum pick up.

THE MECHANISM

A four pole, four coil, shaded pole induction motor is used to drive the mechanism of the tape deck. The operation of the machine is made extremely simple by the use of a single lever control.

The tape is driven at a constant speed of 19.25 cm. (7½") per second in the forward direction and at approximately ten times this speed during rewind. The tape chucks are designed to accommodate conventional tape spools up to 7" of diameter.

OPERATION OF THE TAPE RECORDER

POWER SUPPLY

The tape recorder is designed for use on either 110 or 220 volts A.C. at frequencies of 50 to 60 cycles per second. Therefore, before connecting the tape recorder to any power source, care must be taken to see that the line voltage corresponds to that indicated on the voltage selector at the back of the recorder. To convert the voltage rating of the recorder, pull out the voltage selector and plug it in so that the correct line voltage is indicated beneath the arrow sign.

THREADING THE TAPE

Unscrew the bakelite knob on the left side chuck of the tape deck. Set the control lever in the stop position. Place a spool of tape onto the chuck. Rotate the spool slightly so that the ribs of the chuck may engage the corresponding slots in the spool. Screw on the bakelite knob. Pull out a length of tape about 10" long. Wind it around the guide pulley with the tension regulator pin pressing against the back of the tape; pull it over the head assembly and through the gap between the capstan and the pinch wheel. Thread the tape into the slot in the hub of the take-up spool. Rotate the take-up spool anti-clockwisely until the tape overlaps itself and engages the spool firmly. Turn the control lever to the forward position and see that the tape moves smoothly over the head assembly and is readily wound up onto the take-up spool. The recorder is then ready to record or reproduce.

RECORDING

Recordings can be made from either a microphone, a phonograph or a radio set. Any high impedance microphone may

be used. An output of 3 millivolts from the microphone is sufficient to fully load the tape.

Set the selector switch to the "record" position. If a microphone is used, insert the plug into the jack marked "microphone". If recording from a radio tuner or a phonograph is desired, connect it to the jack marked "input". The volume control is regulated so that the recorded sound just causes the electronic eye to close. Turn the control lever to the "forward" position and the recorder will begin to function.

When the recording has been completed, return the control lever to the "stop" position. The time plate below the take-up spool will be partly covered by tape, the edge of which will indicate the time elapsed in number of minutes during the recording procedure.

REWIND

After every recording or reproducing operation the tape must be rewound onto the supply spool before it can be played back or used again for recording. Set the selector switch to the "reproduce" position. Turn the control lever to the "rewind" position. After rewinding is completed, return the control lever to the "stop" position.

REPRODUCTION

The recorded tape after being rewound may be played back. Note that the selector switch is left on the "reproduce" position. Turn the control lever to the "forward" position. Adjust the volume control for the desired sound level and use the tone control to get optimum tonal balance. It should be careful not to manipulate the selector switch during reproduction as any such mis-operation will cause the inadvertant erasure of recorded sound. After the use of the tape recorder always return the control lever to the "stop" position.

OUTPUT CONNECTIONS

An output connection may be obtained through the jack marked "output" which will deliver approximately 400 millivolts across a 500,000 ohm load, and may be utilized to drive an external amplifier.

An external loudspeaker with 4 to 6 ohm impedance may also be connected through the jack marked "external loudspeaker". Its connection automatically cuts out the function of the internal loudspeaker.

ERASING

During the recording procedure the tape is automatically erased of its previous recordings. Therefore, ordinarily it is not necessary to carry out a separate erasing procedure. However, should it be desired to make an erasure without at the same time recording anything onto the tape, then set the volume control at the minimum position and carry out the operation as in RECORDING.

LUBRICATION

The tape deck mechanism should be lubricated every two or three months. Use a high grade oil and be very careful not to allow the oil to touch the rubber surface of the drive wheels. Any lubricant spread on these wheels must be immediately removed.

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

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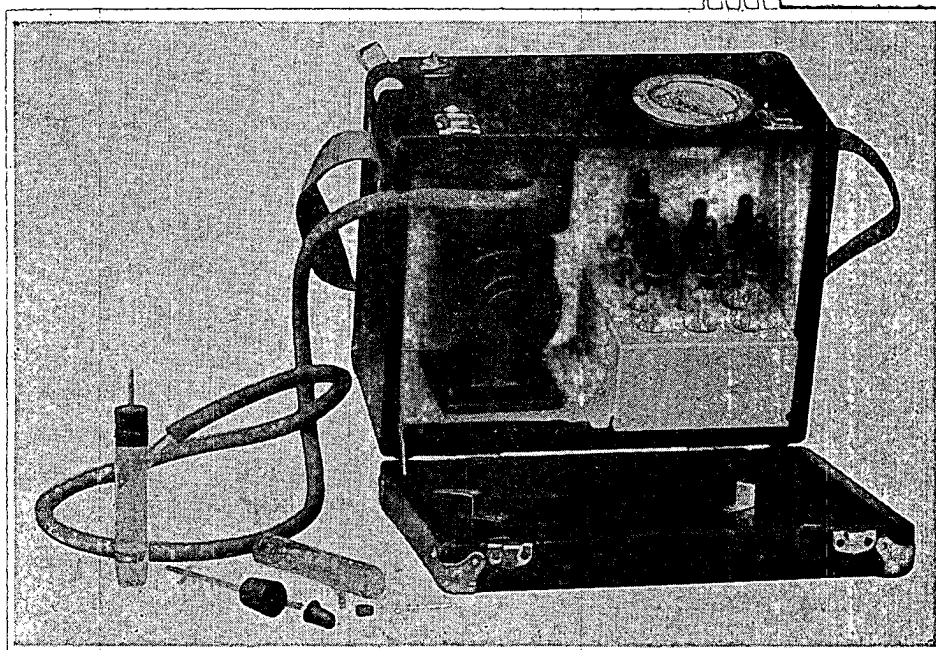
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MIDGET DUST IMPINGER

MODEL 38B



中國儀器進口公司
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION
(IMPORTERS & EXPORTERS)

25X1

MODEL 38B MIDGET DUST IMPINGER

The model 38B Midget Dust Impinger is a small, compact instrument for standard measurement of atmospheric dust. The importance of the hazard of dust in the industrial plants to health and property is generally recognized. To prevent such disasters an analysis laboratory of dust containment in the air should be well equipped. We are glad to suggest that our Midget Dust Impinger will fulfil all the requirements of dust analysis and brings efficiency to work desired.

This latest development in dust sampling apparatus overcomes the main disadvantages of the regular size impinger—its bulk, weight and power requirements—yet it retains the characteristics which yield reproducible results and make the impinger indispensable for control work and dust surveys.

The pump (Rotary Vacuum Pump) of this impinger, operating in conjunction with a vacuum regulator, maintains an unfluctuating suction regardless of minor variation in the rate or smoothness of cranking.

Isolated locations, confined spaces, the absence of electricity or compressed air are not obstacles to the use of the portable Midget Dust Impinger since it can be carried and operated almost every where. This apparatus makes it possible to conduct dust surveys easily and quickly.

The portable Dust Impinger is supplied complete with dust collecting tubes, 9 impinger tubes, rubber, stopper, carrying case and shoulder strap. It is 35.5 cm long, 23 cm wide and 30.5 cm deep, weights 10 kgs.